

Applicant: Opperman et al.
U.S.S.N.: 07/995,345
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In the Claims:

CM 1 22. (Twice amended) A protein, produced by expression of recombinant DNA in a host cell and isolated from said host cell [substantially free of other contaminating proteins], comprising a pair of polypeptide chains disulfide bonded to form a dimeric species, each of said pair of polypeptide chains having less than 200 amino acids in a sequence sufficiently duplicative of the sequence of [COP5 or COP7] :

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<u>COP5</u>	<u>1</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>
	<u>LYVDFSDVGWDDWIVAPPGYQAFYCHGECPPFLAD</u>				
	<u>50</u>	<u>60</u>	<u>70</u>		
	<u>HFNSTNHAVVQTLVNSVNSKIPKACCVPTLSA</u>				
	<u>80</u>	<u>90</u>	<u>100</u>		
	<u>ISMLYLDENEKVVVLKKNYQEMVVEGCGCR</u>				
<u>COP7</u>	<u>1</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>
	<u>LYVDFSDVGWDDWIVAPPGYHAFYCHGECPPFLAD</u>				
	<u>50</u>	<u>60</u>	<u>70</u>		
	<u>HLNSTNHAVVQTLVNSVNSKIPKACCVPTLSA</u>				
	<u>80</u>	<u>90</u>	<u>100</u>		
	<u>ISMLYLDENEKVVVLKKNYQEMVVEGCGCR</u>				

PS such that said dimeric species has a conformation capable of inducing bone and cartilage formation when implanted in a mammal in association with a matrix.

new
rule
121 In claim 85, line 1, after "comprising" insert
--a pair of polypeptide chains disulfide bonded to form
a dimeric species, at least one of said polypeptide
chains comprising--.

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